

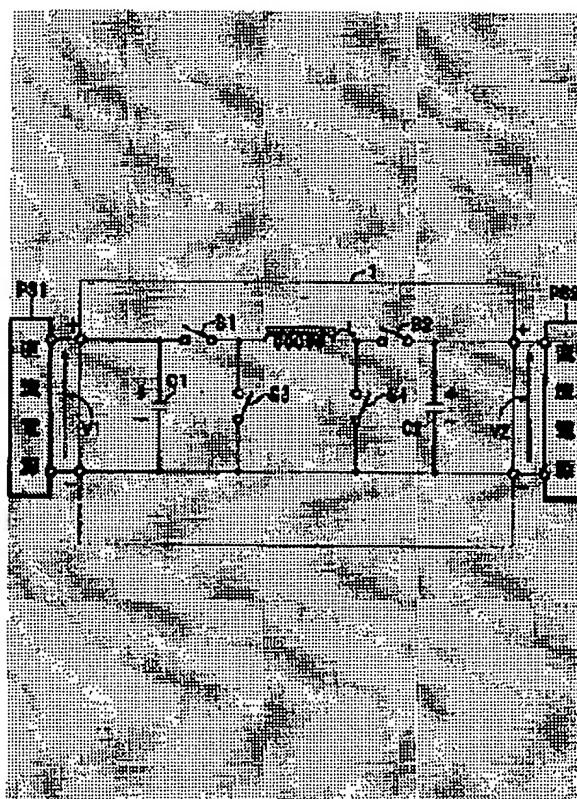
DC-TO-DC CONVERTER

Patent number: JP2001292567
Publication date: 2001-10-19
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Classification:
- international: H02M3/155; H02M3/04; (IPC1-7): H02M3/155
- european:
Application number: JP20000104834 20000406
Priority number(s): JP20000104834 20000406

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Abstract of JP2001292567

PROBLEM TO BE SOLVED: To provide a DC-DC converter for supplying a stepped up voltage or stepped down voltage in both directions and to be constituted readily at a low cost. **SOLUTION:** This DC-DC converter is provided with a serial circuit connected in parallel with a power supply PS1 formed with the serial connection of a switching element S1 and a semiconductor element S3, a serial circuit connected in parallel with a power supply PS2 formed in serial connection with a switch element S2 and a semiconductor element S4 and a serial circuit formed in serial connection with a semiconductor element S3, a semiconductor element S4 and a choke coil L. Thereby, the switching element S1 (or S2) is switched and the switch S2 (or S1) is turned on. Moreover, a semiconductor element in the serial circuit to which one switch element belongs, is switched with inverted synchronize with the switching of such a switching element and a semiconductor element within the serial circuit, to which the other switch element belongs is turned off. Thereby, the stepped up voltage or the stepped down voltage is generated, based on the one power source voltage and these are then supplied to the other power supply.



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